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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,590	11/12/2003	Kazunari Tokuda	17205	7830
23389	7590 05/12/2006		EXAM	INER
	OTT MURPHY & P	LEUBECKER, JOHN P		
SUITE 300	CITY PLAZA		ART UNIT	PAPER NUMBER
GARDEN CITY, NY 11530		3739		

DATE MAILED: 05/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTOL-326 (R		tion Summary Pa	art of Paper No./Mail Date 05042006			
2) Notice 3) Information	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 11/12/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				
AM6-4:						
* \$	See the attached detailed Office action for a list	* **	ed.			
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:		n)-(d) or (f).			
Priority ι	under 35 U.S.C. § 119					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
·-	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	ion Papers The specification is objected to by the Evernine	•				
		r election requirement.				
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	r election requirement				
	Claim(s) <u>10-16</u> is/are rejected.		·			
	Claim(s) is/are allowed.	withdrawn from consideration.				
•	 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 1-9 and 17-19 is/are withdrawn from consideration. 					
Disposit	ion of Claims					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
•	☐ This action is FINAL. 2b) ☐ This action is non-final.					
	Responsive to communication(s) filed on <u>09 M</u>	arch 2006				
earn	ed patent term adjustment. See 37 CFR 1.704(b).	date of this communication, even it timely file	o, may reduce any			
WHIC - Exte after - If NC - Failu	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Period fo						
	The MAILING DATE of this communication app	John P. Leubecker	3739			
Office Action Summary		Examiner	Art Unit			
		10/706,590	TOKUDA ET AL.			
		Application No.	Applicant(s)			

Election/Restrictions

1. Applicant's election of Group II, claims 10-16 in the reply filed on March 9, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 10-12 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitsui (U.S. Pat. 3,889,662).

Referring mainly to Figures 6 and 7, Mitsui discloses an endoscope comprising an inserting portion (at least 11 and 12), an illuminating means (23), a normal observing optical system (19), a confocal optical system (amplifying lenses 20) and a waveform split element

(27,28) which is shared by both optical systems. Integrally formed to the waveform split element are concave lens surface (note surfaces of lenses 19) and a diffraction-type optical device (either 29 or 26).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsui in view of Togino (U.S. Pat. 6,147,808).

Mitsui fails to disclose concave or convex surfaces, whether mirrored or not, within the waveform split element. However, it is known it the optics art to combine curved (convex and concave) mirrored and refractive surfaces in a prism system (as opposed to separate lens elements and mirrored surfaces) to reduce size, number of components, weight and cost (Togino, col.1, lines 14-18, col.2, lines 57-60, col.3, lines 9-27 and exemplified in at least Figures 15, 16b and 17). Therefore, assuming that the objective lens systems 18 and 20 are only representatively shown, a that these systems would inherently include concave and convex surfaces (the mirrored surface is at 27), it would have been obvious to one of ordinary skill in the art to have provided such surfaces in the most compact and efficient way possible, as taught by Togino.

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7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsui in view of Krauter (U.S. Pat. 5,140,975).

Mitsui discloses a light guide bundle (23) as an illumination means and a light guide bundle (17) for the image transmission means. Thus, Mitsui fails to disclose a solid state image pick-up device. Although the Examiner takes the position that this is ordinarily known and conventional, Krauter is cited (as one of many references that could be cited) to evidence that using a solid state image pick-up device instead of the optical fiber bundle of Mitsui to transmit the image back to a viewer has been contemplated and is conventionally known. It would have been obvious to one of ordinary skill in this art to have replaced the optical fiber bundle of Mitsui with a solid state image pick-up device for all of the known reasons: produce a video image for display on a monitor, eliminate need for fragile and bulky optical fibers, greater resolution, etc.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kaneko et al. (U.S. Pat. 5,305,759) Tanaka (U.S. Pat. 6,930,705)

Farkas et al. (U.S. Pat. 6,530,882) Mizuno (US 2004/0122289)

Harris (US 2005/0228229) Tokuda et al. (US 2003/0233028)

Dickensheets et al. (U.S. Pat. 5,742,419) Penn (US 2006/0061892)

Suga (US 2002/0018276) Xie et al. (U.S. Pat. 6,809,866)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Leubecker whose telephone number is (571) 272-4769. The examiner can normally be reached on Monday through Friday, 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John P. Leubecker Primary Examiner Art Unit 3739

jpl